# Updates in notes from last meeting:

Strobing, animations, dynamic graph generation and interactiveness / movement.

Multiple different views of the same generational “chunks” (e.g. front-elevation, side-elevation, views of a house plan).

Not so much “Show me the relationships that Zeus has” but focus on the heroes. Show parts that are not generally available easily on the internet.

E.g. the regional, Apollodorus information, not readily available.

These are the interesting questions!

Greta will suggest a place to start. ☺

**Create an algorithm for incestuous connections**

Creating a few principles and seeing how they address the complex issues.

Should we show who are concubines/mistresses/wives/partners/girlfriends? Distinguish them in the family tree?

Could research more on different values in family relationships e.g. whether certain cultures are more paternal, children’s level of dependence on parents, overall family closeness in Chinese vs European families. However since this doesn’t directly affect the layout of the family tree, is not really necessary, and as such should only be used as background information for the e.g. introduction of the thesis.

* + - A really good paper about family relationships <https://scholarworks.gvsu.edu/cgi/viewcontent.cgi?article=1061&context=orpc>

# Action Items from previous meeting:

* Look at the existing tools (&play around with them) and what they’re ca­­­­pable of
  + Github
  + JS graph visualisation libraries
  + Could generate a prototype

Meeting agenda:

# Research Question in one sentence:

No idea at the moment – how to structure a research question for such a big project?

Can have one question with multiple answers

* Visualising complex relationship
* Rewording title of project
* Experiences of different users
  + General users interested in Greek mythology
  + Cognoscenti – people who know stuff
    - Design an interface for different users? Or one for all?

Start with simple question, and in following paragraphs flesh out what this means.

# What I’m currently working on:

**Use markdown to pdf workflows – pandoc (pandoc-citeproc) – through homebrew**

**Start making notes in markdown**

* Created a GitHub repo for the project: <https://github.com/yayalu/greekgraphs.git>
* Add ben: @benswift
* Will be using ReactJS for the frontend due to familiarity with it, possiblility in combination with TypeScript
* Potential DAG Generation Libraries
* DagreJS with Dagre-d3 for graph rendering
  1. <https://dagrejs.github.io/project/dagre-d3/latest/demo/clusters.html>
  2. <https://github.com/arxenix/react-dagre-d3>
  3. [http://ankursundara.com/react-dagre-d3](http://ankursundara.com/react-dagre-d3/?selectedKind=Basic%20Settings&selectedStory=dynamic%20graph%201&full=0&addons=1&stories=1&panelRight=1&addonPanel=storybook%2Factions%2Factions-panel)
  4. <http://js.cytoscape.org/>
  5. Vis.js
  6. Sigma.js
* D3.js standard graph visualisation tool
* Currently just importing the CSV files
  1. Parse the CSV datums
  2. Conduct reverse-logical operations (X is grandfather of Y => Y is grandchild of X)
  3. The aim is to generate all of the data cards before the next Friday or next meeting.
* Generate reverse datum table

# Upcoming dates to be aware of:

September 17th – Lightning talks, 4 slides (1 introduction, 3 project), 3 minutes with 1 min questions.

September 24th – Group discussions to talk about honours project issues

University term break starting end of next week.

# Next step and what’s getting in the way:

Fixing the issues with the CSV parser rendering.

Create a list of logical operations to reverse

Finish creating a simple prototype

Determine the appearance of the data cards

Parsing the CSV file in a script (in another language) and turn it into JSON, and make the react site load JSON

Anything that can load CSV and return JSON

Pandas – python package

**Do user tests over the summer**

**Figure out how to measure the effectiveness of the system**

**Qualitative analysis techniques**

**Research into the effectiveness of various graph visualisation techniques.**

* + - **CHI  
      Quantitative**
    - **Qualitative**
    - **Graph structure**

Use to justify my approach to the

Use to format the user evaluation questions, and explain how they’re based on existing literature.

Move everything (marks) to markdown files and to github

Check with Greta if she’s here during the break.

**In future –** a chapter that discusses the architecture of the project, why use ReactJS (really briefly)

Before next meeting:

* Look at everything above
* Get something easy working (simple prototype)
* Discuss the lightning talks the following week
  1. Solidify project understanding
  2. Create presentation